

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1-41 (Canceled)

Claim 42 (Currently Amended) A pump for delivering precisely determined, small liquid flows under high pressure[[s]], the pump comprising:

at least one pump device including a displacement chamber, at least one working medium access bore formed in the displacement chamber and a piston that is movable in the displacement chamber;

at least one working medium access bore of the pump device having a detachable connecting assembly positioned at the working medium access bore, the connecting assembly including at least one pair of sealing surfaces having a first forming a junction that is tight to a working medium, one sealing surface and a second sealing surface, the first sealing surface being essentially dome-shaped and convex and the other second sealing surface being essentially concave and conical and non-complementary to the first sealing surface, the first and second sealing surfaces contacting each other along at least one annular contact line without forming a contact along an entire area of either one of the sealing surfaces, and the sealing surfaces having a center with a respective central opening openings defining of a channel connected to for the working medium access bore defining an annular contact line between the two sealing surfaces even if the channel openings are not precisely aligned to each other.

Claim 43. (Currently Amended) The pump according to claim 42, wherein a seal is interposed between the first and second sealing surfaces of the at least one pair of the sealing surfaces.

Claim 44. (Currently Amended) The pump according to claim 42, wherein the connecting assembly comprises further comprising at least a first pair of the sealing surfaces, and a second

pair of the sealing surfaces, and a sealing body is disposed between the first and second pairs of the sealing surfaces, one of the first and second sealing surfaces of each pair of the sealing surfaces being an inner sealing surface, including inner surfaces; the sealing body having the respective inner sealing surfaces of the two pairs of sealing surfaces being formed on the sealing body, thereon and the inner sealing body further comprising is comprised of a dimensionally stable, highly pressure-resistant synthetic material.

Claim 45. (Currently Amended) The pump according to claim 42, wherein the connecting assembly comprises further comprising at least a first pair of the sealing surfaces and a third pair of the sealing surfaces, one of the sealing surfaces of each pair being including an inner sealing surface and another of the sealing surfaces of each pair being an external sealing surface, and the connecting assembly further comprising two inner sealing surfaces each face the other pair of sealing surfaces; a connecting body disposed between the external sealing surfaces of the two first and third pairs of the sealing surfaces, so that the two first and third pairs of the sealing surfaces each form a tight junction with the connecting body.

Claim 46. (Currently Amended) The pump according to claim 42, wherein the connecting assembly comprises a first connecting body having further comprising a pair of a first contact surface, the connecting assembly further comprising a second connecting body having and a second contact surface contacting each other, a second connecting body in the connecting assembly on which the first contact surface, the second connecting body having one of the first and second sealing surfaces formed thereon such that and the sealing surface are formed; the second connecting body being held is disposed between the second contact surface and the other one of the sealing surface[[s]] formed on the second connecting body; the connecting assembly further comprising a duct for the working medium, the duct being fixedly connected to the second connecting body wherein the duct and communicating communicates with the channel having the central opening located in at the sealing surface of the second connecting body.

Claim 47. (Currently Amended) The pump according to claim 46, wherein the contact surfaces are cambered and complementary to each other to center the contact surfaces with respect to each other second connecting body in the second contact surface.

Claim 48. (Currently Amended) The pump according to claim 46, wherein in at least one of the first and second sealing surfaces pairs at least one of the sealing surfaces is provided with a concentrically stepped surface forming in order to provide a plurality of annular contact sealing lines with the other sealing surface.

Claim 49. (Currently Amended) A pump assembly comprising at least a first pump according to claim 46 and a second pump device each according to the pump of claim 46 and each comprised of a displacement chamber and a piston, the second pump device being positioned downstream of the first pump device and the second pump being operable operable as a storage device of pulsation of the first pump device.